

FIG. 1A

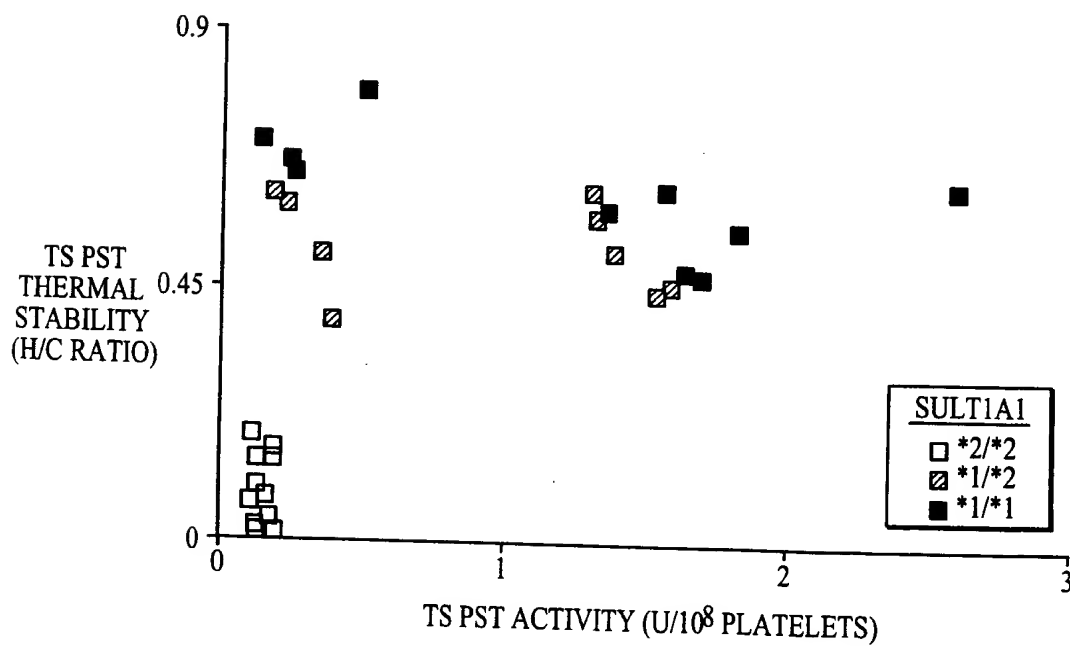


FIG. 1B

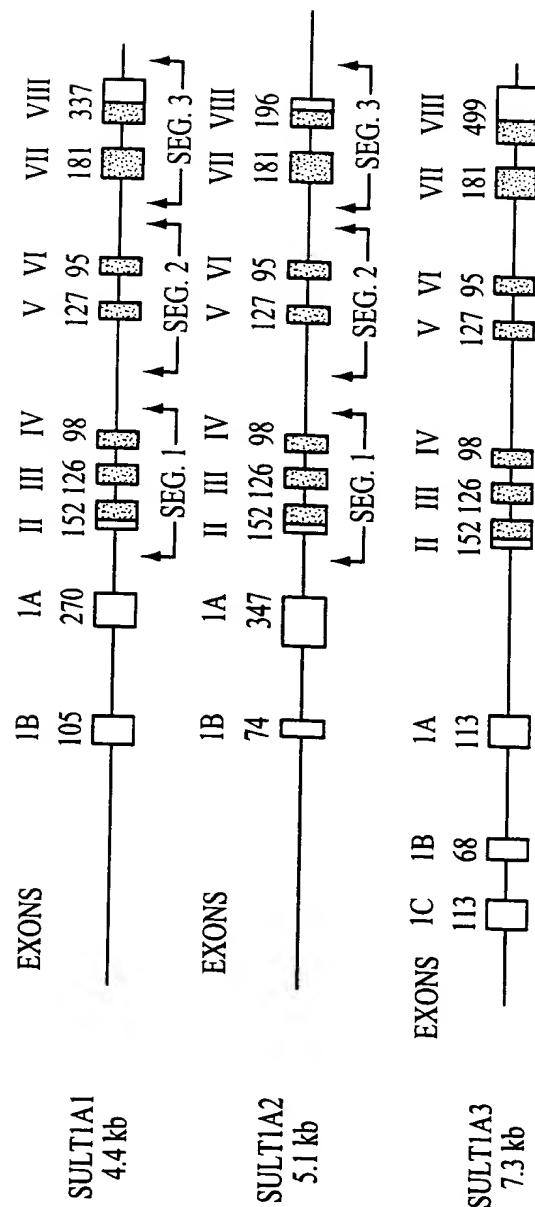


FIG. 2

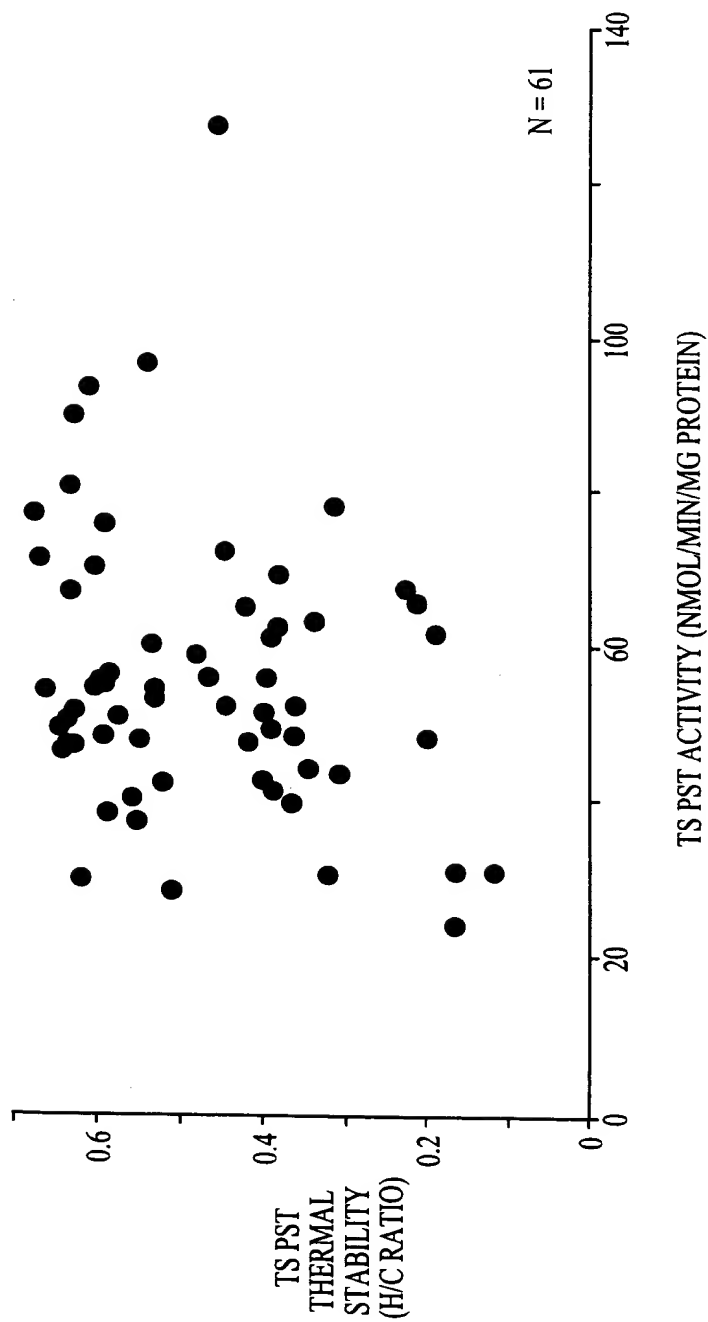


FIG. 3

EXON 1B

[illegible]

EXON 1A

aggcagtg atcacaggc tggctggct **ggggg**ttc cacatgtgag ggcttgagg gctcaabgag ggagcatct ccactgggtg gaggcgtgggg
 gtccacagc gaaatggtga gacaaagggc gctggctggc agggagacag cacaggaagg tcttagagct tctcatgtc asctggactc tcctggagac
 cttcacacac cctgatattt gggccttgcc cgacagaggt gctttcactg gtctgcacca tggcccagbc ctgggattt tgaacagctc gcaggtgaa
 tgaagtg ggcaggtg gggagcaao gattagag cagactgt tttagccc agcccagaa atgactggt ttgtagtg gggagaagtc
 otagctcc ctaggctca gtgaattccc tgaaggaag aattcaact tttgtgtt gtatgtgg taagggaag ggcctgctc tgggcctga
 ggcaggaac tgaagctgat ccagagacac tccggccgc cactggagta gctgaaagg gtccgcctca tcaagtactt tgcagagga ctggggcccc
 m e l i q d t s r p p l e y v k g v p l i k y f a e a l g p l
 tgcagagctt ccaggccgg cctgatgacc tgctcatcag cactatccc aactccgta agtggagg gcaaccacc ctctccagg tggagtcac
 q s f q a r p d d l l i s t y p k s e

EXON II

9801
 9901
 9901

EXON III

1001	caccttggcc agcgaggtcg tgcctcagc ctgctcacc cccatctccc tccctctccc	gscaccacct gggtagacc gaattctggac atgatctacc
1101	agggtgtgta cctgagaag ttgtaccgag ctcccatctt catgcgggtg cccttccttg agttcaaac cccagggatt cccctcagtg tgtaggtgtg	t t w y s q i l d m i y q

EXON IV

2201 tcttgggtgc aaggggagtg gagggagaca ggggtggggg ttaagotcac cagaccttcc ctgacccaat gctcagcggat ggagactctg aaagacacac

2301 cggccccacg actctctgaag acacacactgc ccttggctct gctccccag actctcttgg atcagaaggt caagtggg cagggcaag tgtttcaat

401	coataatccc	agracctttgg	gaggttgagg	cagggcagato	aactgaggtt	gggaggttga	gagracccotg	agpaacatag	aagraccttg	tototactaa
501	aaatacagaa	tlagccgggt	gt'ggt'gggg	tcccagotac	tcccagotac	tcccagotac	gagracgggg	aatacactga	acccgggaga	agpaggtt'gt
601	ggt'gagccag	agatcccacc	at'groat'cc	agoot'gagaa	acaaagpaa	aactocaaa	aataaataaa	taaatagata	tataaataaa	aataaaaat'gt
701	tggcacact'gt	ggt'ggt'ctac	t'gct'gtaatg	ccagraccttt	gggagpccaa	att'ggt'gga	tcactt'gagc	taaggaghta	cagacocagcc	cgggaaacat
801	ggggaaecttc	catototata	aaaa'gcaaa	atatagcag	ggcat'ggt'gg	cat'ggogotg	tagtt'ccagc	tact'ggaag	tet'gaggttg	gaggat't'gct
901	t'gagcct'ggg	aggt'caaggt	t'gacgt'gagt	tattat'cact	ccagt'gcaat	ccaact'ggg	cgacagaaaa	aaagaaagac	caaggt'cttt	tttctttttt
001	gagat't'gtot	caataataaa	ataaa'tgaat	aaataaaaa	aaataaaagt	aaataaa'atc	ccacaat'baa	aagaaaaago	aaaggt'ccag	gt'gt'ggggpa
101	t'gt'gaat'caa	gggaaagagag	ccot'gnotaa	ggcagcttt	gg'tcct'gttc	t'gt'gggaaa	gt'ccogctag	tt'cct'ccagc	att'gt'ctcat	ct'ct'ggggc
201	ggggag'ot'gt	t'gct'ctt'gc	tot'ga'tgac	agaaagctaa	gg'ct'ctt'gg	t'gt'gacacta	agaaagctag	aggg't'gggtc	ct'ccacagctc	cacaaaaattt
301	ggt'gggg'gtg	ggat'caggg	t'ggt'gga'gag	t'goot't'gto	cagat'cgggg	t'gt'gac'gcat	tatat'gt'ga	tagaaat'ga	t'gg't'ct'cag	tggt'ct'cag
401	gaccag'g'cag	gact'tt'ggct	t'ct'gag'cag	gt't'cag'atcc	t'gaatt'ggcc	ct'accc'gt'gc	ct'g'gag'atct	caaacag'tc	ag'cct'ataag	ct'cag'gt'tc

FIG. 5B

101 ttgtgcaag ctgactctcc ctactgtct ctactgtct ttgtgctgg gacaggtga aggggggccc ttgtgtgccc ccaacccctgg ctgttggtta
 201 agagcccaag tgatctgct gtgagagag ttcttccgg aagaaacagg ggaattctg ccctagagg gcaatgccc tagctgagtg cagtcccccg
 301 gcccagcct ggtccagctt tgggaagag gtcccagtt gtgcaatcca ggcgggggca ggcgtgtcct gatcttggtt ttcagggttg agctggagg
 401 gggtttgtga tgcctgactc tctctccctc tctggccca gactgggaat tagaagagct gactgggctt tggcccaagg ctccctaccc cactccctgt cctgggtgc ctgtgaccaa
 501 cctgtttct gcaggccac tggatagccc tcttgagct cagtgtccct aatccctcc gatactggt ggcctagggg aggtcatcaa aaacgggtg
 601 gacatcgacc tcaggccgtt tcaagcgtt ttttggttt ttttggttt ttgagccga gtttcaatct tgttgccag gctggagtg aatggcgtga
 701 tcttggtca ccgcaacctc ggcctctgg gttcaagga ttctctgccc ttactgtgg toagctccc agttagttgg gattccagg gtgtgcaac aggttgact
 801 aatttttat ttttagtag gacaagttt ctactgttg gtaagctgg gtaagctgg cacttagcc agaatgccc ttactgtgg gtaagctgg gtaagctgg
 901 ctgggattac agaggtgag caccgtgca ggcctctcc aggtctggg gtaagctgg gtaagctgg gtaagctgg gtaagctgg gtaagctgg gtaagctgg
 1001 ggaatttcc tgcagagtaa aggaatccac toaagagag gaaagtggg gtaagctgg gtaagctgg gtaagctgg gtaagctgg gtaagctgg gtaagctgg
 1101 gggcttctc aactaaagag ggttatatto atgaagag atgaagag taagatttc tcaagaccgt ggtgcccaca ttacaccca atacaggtg
 1201 tctctggag cgtcttgga ctgttggtg taaggtttca tatgtactg atatacaat gatactctag gtgaaaccta cataaatat aggcacatgt
 1301 tgtgtctgt tggctgtgg cagcttggtc cacttctat tttcaagga ctattggcc cttagcgtat gaaactattt caagtttctc tcttctctc
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 1501 ttgttaact agtgaatc aaagtctag tcaagggaac ctctgagg ttgtgagg caggggtgga gtagtagcc taggacccg ccagtcacgg
 1601 ggaattctca tgggacaga ggaaggga ggggtccatg ggcctagat atgaagcc ctctctgc ctgacccg cabgctoag ctccccac
 1701 actccacot gtcgcttg ctctgactc agcatttct tggagctt tggagctt gggagctt cctttacta gttgttgtt tacctgtctc gtgacagct
 1801 tgaacttgga cttaagtg agataaaga acgaggaaga tggggggatg ccccccctc aggggcccgt tgggttccaa acctgggctc ccttgggtc
 1901 ctgtctgtg ggcctctct caaaccaagg gaataaaga caactgccc ggttctgtgt tottttaga totttatca atgtctctg aggtccccc
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 2101 actctgcca caacatccc totagactgg agcagcagg taggtgact ttccaggcc tgcataccc agctttctc tccactctc cccctctctt gctgggggta
 2201 cacttcaag actggcctgg agccagcagg ggggttgga gttcagggg aggtcagga cccagtgaa gttcagaaa aaaaaaaa aaaaaaaa
 2301 attagagaga gctgtctgt tgggtgctg ggggttgga gttcagggg aggtcagga cccagtgaa gttcagaaa aaaaaaaa aaaaaaaa
 2401 cagaaaaaa aactacaaa aacaaaccca ccatggggc ttccccctt cactctctg tttttacac agaaactca gctgtgctt tggagatcac
 2501 tttaagctg tctccagctg gcaactaag gagggtaatg gaaagtctc ccaacccccc tctctccgg aagaaatct aagtcacagc

FIG. 5A

5501	ctcctttgac aatocaaag atgagctggc ctgggggaag ctgtgtgtg atgtgtgtg totgtgctgt totgtgctgt atgtgtgtgt atgtgtgtgt	EXON V
5601	CAACGCAAG GATGTGGCAG TTTCCTACTA CCACCTTAC CACATGGCCA AGGTGACCC TGAGCCTGGG ACCTGGGACA GCTTCTTGA GAAGTTTCATG	
5701	N A K D V A V S Y Y H F Y H H A K V H P E P G T W D S F L E K F M	
	GTCGGAGAAG gtgggtttga tgggaggaag gaaagtgtg agcagaaggg tgggtgtgtac aacgaagga aacctgtgt tgggaacct tgcctgttc	
	V G E Y	
5801	toeaagtctc TACGGATCCT GGTACCAACA CGTGCAGGAG TGGTGGGAGC TGAGCGGAC CCACCTGTCT CTCTACCTCT TCTATGAGA CATGAAGGAG	EXON VI
	S Y G S W Y Q H V Q E W W E L S R T H P V L Y L F Y E D M K E	
5901	gtgagacac ctgtgaagt toctocatg tgacactgg ggggggga ctcacagga cccacaggg toacacagc cctcccttg gcagcccca	
6001	cagaggaac ggtttccca tootgoottc ttggnocagg octcccggt acaggggga cctggcaggg ggcacacac ggcctcatc accacatct	
6101	gagtcagctg catgggggg cagcgtacag aaacttagtc ctattgtac toctgtgac aggtgtgac accaggggc acgtcatgg aagaagacca	
6201	tcacgtgoot cacocatagg agccaagpcc agtcatgat gggatcacag ggcagacag aattctttt accccggga otggggpcc tgggggttgag	
6301	gagttggctc tgaagggtct ctaggagagg tggccagtc gctctgag tttagaagg ggaaccttt tacttttct gaacagaa tocgagcctc	
6401	caotgagag cctctgtgtg ctcaagaccc CAAAGGGAG ATTCAAAAGA TCTGGAGTT TGTGGGGCAC TCCTGGCCAG AGGAGACCGT GGACTTCATG	EXON VII
	N P K R E I Q K I L E F V G H S L P E E T V D F H	
6501	GTTGAGCACA CPTCGTTCAA GGAGATGAAG AAGAACCCTA TGACCAACTA CACACCGTC CCCAGGAGT TCATGGACCA CASCATCTCC CCCTTCATGA	
6601	V Q H T S F K E M K K N P M T N Y T Y P Q E F H D H S I S P F M R	
	GGAAAGgtgg gtggtggcca gtacgggggt ttgggggggg tgggaggaag agtgaagga tocccatagg caotggggg otccctggg atgagactcc	
	K G	
6701	agccttgctc cctgcttcc ccccccagc ATGGCTGGG ACTGGAGAG CACCTTCACC GTGGGCGAGA ATGAGCGCTT CGATGCGGAC TATGCGGAGA	EXON VIII
	M A G D W K T T F T V A Q N E R F D A D Y A E K	
6801	AGATGGCAGG CTGCAGCCTC AGCTTCCGCT CTGAGCTGTG AGAGGGGCTC CTGGGCTCAC TGCAGAGGGA GTGTGCGAAT CAAACCTGAC CAAGCGGCTC	
	M A G C S L S F R S E L	
6901	AAGAATAAAA TATGAATTGA GGGCCTGGGA CGGTAGCTCA TGTCTTAAT CCAGCAATT TGGAGGCTGA GGTGGGAGGA TCATTGAGC CCAGGAGTTC	
7001	GAGACCAACC TGGGCAACAT AGTGAGATTC TGTAAATAA ATAAATAAA TTTTAAAA gagataaaa tatgattgtg ggcaggaat	
7101	agtggtoat g 7152	

FIG. 5C

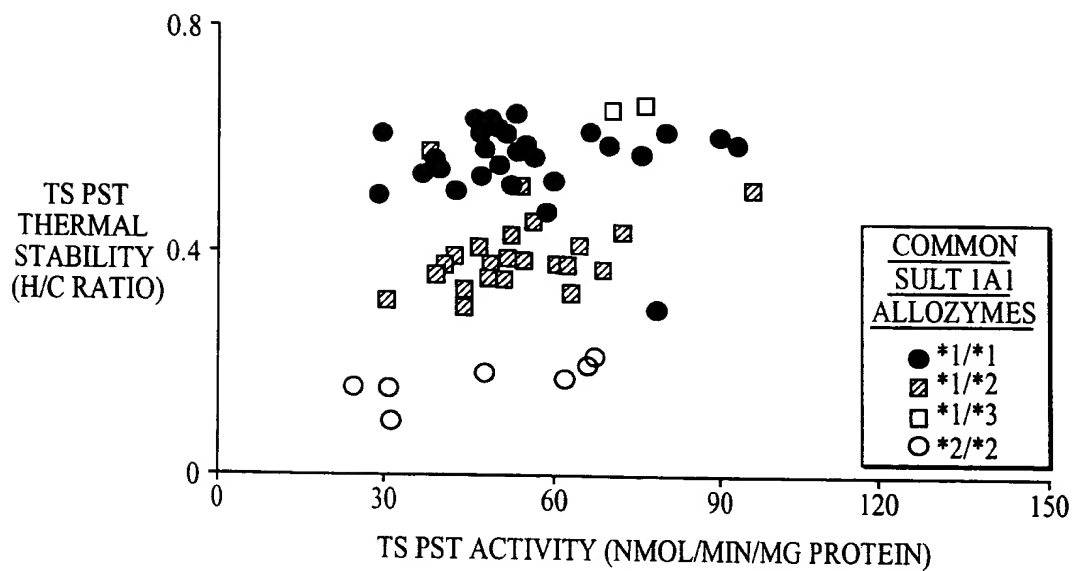


FIG. 4A

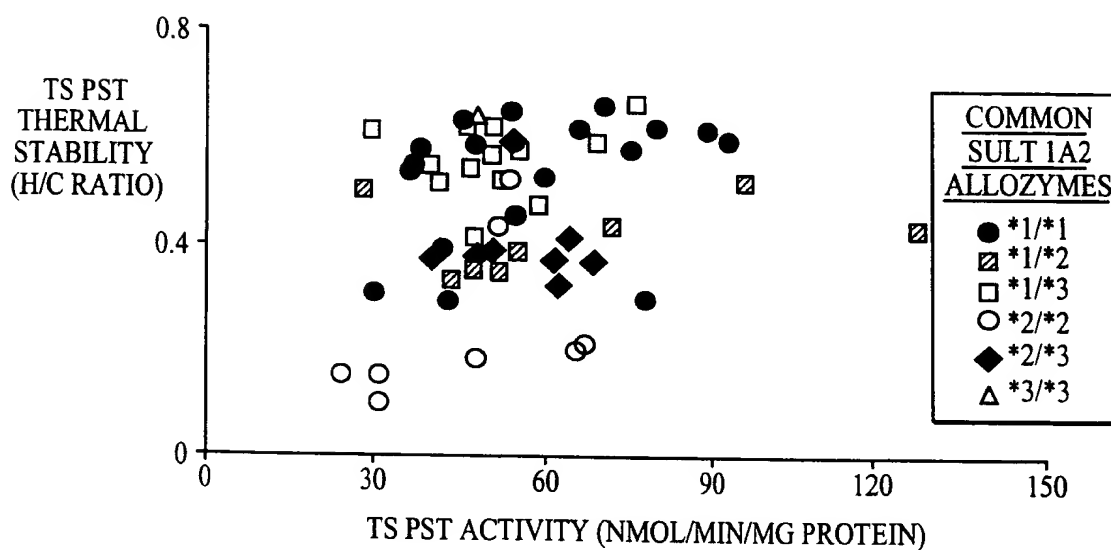


FIG. 4B

-3729 ctctccctcc ttgtctcttta cctgcctgct gctgggagca ggtgaagcg gggcccttgt gttgccccaa cctggctgtg tggctaaagag cccacgtgat
-3629 ctgcctgtga gaggagtcc ttccggagaa accagggcag ctctgcccc tagagggpca atgccccago tgaagtgaagt cccccggccc cagcctgggtc
-3529 cagctttggg aagaggggtgc caagtgtgc aatccaggcc ggggcagcgg tgcctgac ttggtattca gggctgagcc tggagggggc ttgtgatgoc
-3429 tgaotctgtc totctctctg gcccctgccc ttgttagctg tgaaggctga ctgctttggg tgacctgac cctgtgat ggtgacctg ggtgagpca gggggaaata
-3329 gtggaagact cgggaattaga agagctgagt gggctttggc cccagcctcc ctaccccact cctgtctgg taggggaggt cacaagag cagtgggaca tggacctcag
-3229 gcaactgga tagccctgct ggaactcagt gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc
-3129 cctgtttoca cgtttcttgt tgtttttttt ttttttggga gaagaggttt cactcttgtt gcccaggttg gactgaatg ggtgatctt ggtcaccgc
-3029 aacctctgoc tcccgggttc aagcattct cctgcctcag cctcccaagt agtgggatt ctccaggtga totgctgccc tggcctccc aaagtctgg gattacagga
-2929 agtagagaca aggtttctcc atgttggtca ggtgtgtc aaactccga ctccaggtga acaatttaag gacaagtga aaagtcatga acgtagagag attctctga
-2829 gtgagccaco gtgocaggcc ttctccagc tottgccacc ttgcccagaa aaatttaag gacaagtga aaagtcatga acgtagagag attctctga
-2729 gactaaagggt actcaotgaa gaagaggaaac gtgggggtcc toaagagagt gtctcctgccc ctacaaggtg tggggctgac ctttatgggc ttcttcaact
-2629 aaagaagggtt atattoatga agagtccagg aaaggtaaa gatttctcaa gacgtgtgtg ccacaattta caccacaata caggtgttcc tggagccgtc
-2529 ttggcaotgg tgggtgtacg gtttccatag ttactgattg tacagtgaga tccataggtga aaactacac aaatacagcg ccatgttgtt totgtgtgt
-2429 cgaagccago ttggtccca toctattttt caggactta ttggcccttg gcaatgag ctatttcaag ttctctctt ctggtctatgt gaaactggtg
-2329 cctgggattt totgttgtct tgcctagcact ctattaatc caaatctctg cctctttct gtgccacccc ctgtgtgtcc ggtgtgtttt cactagagtg
-2229 caatacaag tctcagtcac gaggccctcc tgaaggttgc tgaaggcag ggtggagta gtgocggag gacctgccag tcatggggat tccctcagggg
-2129 caagagggag ggagggggg cctgtggccc tagcagggga gaagcctctc ctctgctgg aaatccatg cctcagtttt ccccgcttgc ctctgagctc
-2029 acgcaacct gggagggctt gggagactca ccttactca gatgttgtt tacctgtctc gtgccaggt tgacctgga ctttaaatag tgaggacaaa
-1929 gaaagaggag ggtgggggga tgcactcctt ccacgggggc ctgtggttc caagcctcaa cctcctctgg totgtgtg tggagcctcc ttcaaaccca
-1829 tggaaagaaa agtaoctgoc aggggtgtg gttctctag gatctctat agatgttctg tgaggtcccc agggagccat gaagtgggg ctggtctcca
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-1629 ctggccttgt ggtcagagcc tggagtgc atgtgtct ggtgcactgg ggtgcactgg ggcaggaccc ctgacactt caagactggc ctgagccag
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-1429 tcaaggggag gtcaggagcc cagtgcagc tcaaaaaa aaccccccc accattgggc ccttccctt ttoattotto tgtttttac
-1329 acaccaaac cagtcgtggc ttggagatc acttaagct tgtctccagc tggcaasata aggaggggtaa tagagaagct ccccccccc caacctac

FIG. 6A

-1229	cotttcttcc ggaaggaat ctaagtccag cccgggtcc agatccctcc caactgac taagaaaccc teagcacaga caacacccc GCATTCCTCCA	EXON IB
-1129	CACACACCC ACATCAACC ACTGCGGGG AGAGGGGAC GAGGCCAGGT TCCCAAGAGC TCAGTgagt gacacacgg aatggccag gacgcccctc	
-1029	ccctgtccag cttgtggctc caacattcca gaagccgag cctctgttat cctgtccctc toccatgga tatcccatct cagacaaccc cggccggcct	
-929	gaatccccc ccttcccttt ttttttttcc ggggaggcca ggtctgtgtg toacccaggc tggagtgtgtg tgggatoctg gcaactgag ccttgatc	
-829	ctggggtcaa gtagttctcc tgccctcagta cagtaggacta cagaccccctc ccaatccctg tggatggttt taaaaaatat ttttaagaga	
-729	tggggtcttc caatgtgtcc cagattggtc tocaaatct ggcctccagc toctagggt ctaggattac aggtgggag caccctgccc aggtccctcc	
-629	ttttgtgag toatccagc tttgtccatt ccaacatccg gctctggccc ccaataccag ctaggtgtgt caatgggtt TTTGTCTGG AACCCAGATG	EXON IA
-529	GACTGTGCCC GGGCAAGTGG ATCACAGGCC TGGCCAGCCT AGAGTTGCC ACATGTGAGG GGCAGAGGG CTCAGGAGG GGAACATCGG GGAGAGGAGC	
-429	CTACTGGGTG GAGCTGGGG GTCCCGAGCAG GAAATGTGTA GACAAAGGGC GCTGGCTGGC AGGAGAGCAG CACAGGAGG TCCTAGAGGT TCCTCAGTGC	
-329	AGCTGGACTC TCCTGGAGAC CTTACACAC CTTGACATCT GGGCCCCCCTT CCACGAGGCT GCTTTCACCTG GTCTGCACCA TGGCCCGAGGC CTTGGGATTT	
-229	TGAACAGCTC CGCAGGTGAA TGAAGTGA ggcaggtgtg ggcaggtgtg ggcaggtgtg acattagaa cagacccctgt ttttagcccc agcccgcca ctagctggcc	
-129	ttgtggtgc ggggaagtoa ctaacccctcc ctaggctcc gtgacttccc tgaaggaag aattccactt tottgctgt gtgatgtgtg taagggaacg	
-29	ggcctggctc tggccctga cgaagAACAA TGGAGCTGAT CCAGGACATC TCTGCCCGC CACTGGAGTA CGTGAAGGG GTCCCGCTCA TCAAGTACTT	EXON II
72	TGCAGAGGCA CTGGGGCCC TGCAGAGCTT CCAGGCCCGG CCTGATGACC TGCTCATCAG CACTACCCC AACTCCGta ggtgaggag ggcacccacc	
172	A E A L G P L Q S F Q A R P D D L L I S T Y P K S G	
272	CCAGATTCTG GACATGATCT ACCAGGGGGG TGACCTGGAA AAGTGTACC GAGCTCCCAT CTTATGCGG GTGCCCTTCC TTGAGTTCAA APTCCAGGG	EXON III
372	Q I L D M I Y Q G G D L E K C H R A P I F M R Y P F L E F K Y P G	
472	ATTCCCTCAG gtgtgtgtgt cctgggtgca aggggagtg aggaagacg ggtgggggt toagctcacc agacctccc tgaacctg ctaaggGATG	EXON IV
	I P S G	
	GAGACTCTGA AAAACACACC AGCCCCACGA CTCCTGABA CACACCTGCC CCTGGCTCTG CTCCCCCAGA CTCCTTTGGA TCAGAAGGTC AAGTgagac	
	E T L K N T P A P R L L K T H L P L A L L P Q T L L D Q K Y K	

FIG. 6B

572	tgggacagc ggttcacacc cgcacatoca gtaacttggg aggtgaggt gggagagatoc attgagacca gaagttoacg ataagtctot tccaaaaaaa	
672	aaacttagct gtgcatagtg gtgtgtgoot gtaataaccag ttactocagg ggttgaggtg gtaggagatcat ctgagccctag gaggtttaag ttaoagcgag	
772	ctatgatoac accagtgac toacaggtgg gtgacagaga aacactgtot caaaaaaga tgaatgaaa gagtgtccca ccagtgcggt ggctacacac	
872	tgtatcca gcaottgaag aggtgagga aggtgagga cctgagcta aggtttgag atcagctgg caacatggc aaaccccat ctctactaaa	
972	atacaaaaa aattagccgg goattgtggc aggcactgtt aatccagct aotgggag ctgagcagg agaattgct gaagctggga ggcagaggtt	
1072	gtagtcaagg gagacotoac oattgcaacg cagctggga acaagagca aaotctgtc toaaaaaaa agaaaaagc gaaagtgga	
1172	gggggtggg cotgtgtgg ctacagcctg taatacagg acttoggag gtgaggtgg gtagtacc ccaggttagg agtttagat cagtctggcc	
1272	aacatggaga aacccgtot ctactaaaa taaaaaatt agccagcgt tgggacagg gtagtacc ccaggttagg agtttagat cagtctggcc	
1372	tagcttgac ctgggaggg gtgtgtgag ttagccgaga ttgtgcaat gtagccag catttggga ggcagaggt ggtgagcag gagtccaga	
1472	aaatattta aaaggttgc oacctgggtg gtagccaggt gtagccag catttggga ggcagaggt ggtgagcag gagtccaga	
1572	ccagccacgg aaactggg agactocato totataaag atgcaataa ttagccaggt atgtggcat agcgtatag tccagctac tcaaaagtct	
1672	aggttgag gattgttga gctgggag toacgttgg agctagat tctactoca gtgactcca aotgggcaa caggaaaaa gaaagcccaa	
1772	ggtcttttt ctcttttc tttttttg gactagat ccccccac aaaaaaaa aaacacac aacagaaaa agcaaggt ccaggtgtgg	
1872	ggcatgtga tccagggag gaggcccg otcagccag cttgttct gtttctct tocggttaga cctaaagaa gtgaggggt ggtccaca gacccacaa	
1972	cgggggggac tgtctgctt ttgtctgt gacaaaao atgagactot tocggttaga cctaaagaa gtgaggggt ggtccaca gacccacaa	
2072	attgtgtgt ggtgggaaac tgcctgtgt agcatgctt gctccagat ggggtgtgac gattgagc agttatatt actataga atgatgtgt	
2172	caggagacag gaggacttt ggttttgg cagggttgc atcctgactt ggcctacot gtgaggtgag atcacaaca agtcagcctc taagcctcag	
2272	cttctctct tgcacacaa agagatgag tggcctggg cagggtgtgt ggtgaggtgt gttttgtgc cctgaggtg GTCTATGTTG	EXON V
2372	CCGCAACGC AAAGGATGTG GCGGTTTCT ACTACCACTT CTACCACATG GCCAAAGTGT ACCCTCACCC TGGGACCTGG GAAAGCTTCC TGGAGAGTT	
2472	R N A K D Y A V S Y Y H F Y H M A K Y Y P H P G T W E S F L E K F	
2572	CATGCTGGA GAAGTGGG ttagtgggag gaaggaaggt gtgaggtggt gtaggaggtg otacacagca cagcaacot gtgtcggac cccctgccc	
2672	M A G E Y	
2772	ctctccagT GTCTATGTTG TCCTGGTACC AGCAGGTGCA AGATGTGTGG GAGCTGAGCC GCACCCACCC TGTCTCTAC CTCTTCTATG AAGCATGAA	EXON VI
2872	S Y G S W Y Q H Y Q E W W E L S R T H P Y L Y L F Y E D M K	
2972	GGAGTgaga cgccttttga tgcctcccto oactgacac ctggggggcag gcaottoaca gggagcctgco agggccacccc agccacccctc cctggggcgc	
3072	E	

FIG. 6C

1	acctctgcct	cttggttcca	agcaatcctc	cttctctacc	ctccagagta	gctgggatta
61	cacgcgcctg	ccaccgcgcc	tggcctaatt	tttgtatatt	tagtagagat	gggggtttcc
121	aaccatgttg	gccaggctgg	tctccaaact	cccgacctca	ggtgatcctg	cccacctaa
181	cctcccaaaa	tgctggtatt	acaggcatga	gccaccgtgc	ccggcctaaa	taattaataa
241	aataatggac	gatgggtgcc	ttctactgag	ctcccggtaa	ttgtgagtga	gtagaggact
301	tgccctgggg	acatttcagt	acctgctggg	tggtgctgag	ctgtgaggaa	gttcagggtc
361	ggctgcagtg	gtgaggctgt	gactcaatca	atcactgctg	atgctcccag	gacctgcacc
421	agcttagtcc	taggggcaag	gattttaact	gtccacctca	gtctcttcat	ttgtaagatg
481	caaataacag	tcacccttgc	ctcatgggat	ggagctgtgt	aatgcccgcg	acagtgcctc
541	ctgcatagag	gggttgctgc	cagctgcctc	tccctctctg	cttcttacct	gctctgctcc
601	tggtgtcagg	tgaaagaccc	ccctgtgtgt	gccccacccc	tggtgctcctg	ctaaaggccc
661	atgtgatctg	cctggcagag	gagtttcttc	aggaagaacc	agggcagctt	ctgccccctg
721	agggccaatg	ccctgtgtga	gtgcagctcc	ctggccccag	cctgggtccac	ctctgggaag
781	aggggtccca	gttgtgtcaat	ccaggcccg	gcagctgagc	cctcatctca	gcctgcaggg
841	cggatactgg	agggggcctt	tggtcatctga	ctctgtatct	cctacctgcc	cctctccttg
901	gtagctgtga	gaagtcactg	ctttggggag	acctgatctg	gctgtgcccag	atggacactg
961	agaaagaagt	agaagactca	gaattagaag	aggtgagtgg	gctttgggtgg	cgggtctccc
1021	acccactcc	ctgcccctgg	ctgcttgtga	ccacactgct	tgctcttga	ggcacactgg
1081	acagacctgc	ttggagacctg	atcctcagtg	tctttacccc	ctcctacctc	ttttctgtgc
1141	cacctgctgt	gggtccagca	ggtttttctg	tgagtacaat	aaaaagtctg	agtcaagggt
1201	gccttatggt	ggatgctgag	gggagggcg	gagctagtag	cccaaggctc	tgccagtcac
1261	ggggcttccc	caggggcaca	gaggaggcag	gaggggcccc	tgcccttagc	acgtgaacatg
1321	cttctactct	gcctggaaac	cccctgcctc	agctttcccc	tacttgccctc	tgagctcatg
1381	caattcttgg	aagcctggga	gacttacctt	gaaattgaat	gcaaatagga	caaagaccaa
1441	ggaggatggg	gggatgcctt	ccttccacgg	ggccctgtgg	cttccagtc	ttaatctcct
1501	ctagtctctt	gtctacggag	cctccttcaa	accagggaa	agaaaagcac	ctgccagggt
1561	tgtttttctt	ctaggatctt	ctattgatgc	tctgtgaggt	ccccaggag	ccatgaagct
1621	agggctggct	cctagggcaa	tggaactaca	gtgtccttgt	ccttcttcat	tctttctgtt
1681	ctttctttct	ttcttttttt	tttttttttt	tttttttgag	acagagtctc	actctgttgc
1741	ccaggctgga	gtgcagtggt	gtgatcttgg	ctcactgaaa	cctccgcctc	ctgggttcaa
1801	gtgatctctt	tgccctagcc	tcctgagtag	ctaggattac	aggtgcccg	catcatgcc
1861	agctaatttt	tgtattttta	gtagagacag	ggtttcacca	tggtggccag	cttggtctcg
1921	aactcctgac	ctcaggtgat	ctctgtgat	cgacctccca	aagtactggg	attacaggcg
1981	tgagccacca	cgctcagcct	cttcttctgt	ctatatgtcc	atgctctgct	ccacttctgc
2041	cccttcactc	tgccccacac	atcactccag	actggccttg	tgctcagagc	ctggaatgcc
2101	tgggctgctg	ggggcctgtg	gactgcactg	ggccagaacc	cctgccgcct	ctgaagctgg
2161	cctgtagcca	gcaggtaggt	gacttttccc	agggcggcct	atccccacct	tccccctcac
2221	tcactcacct	cccttgccct	ggccaattag	agaaagcttg	tcggccaggc	atgggtggctc
2281	atgcctgtaa	tctcagcact	ttgggaggcc	gaggcggggc	gatcatctga	gctcaggagt
2341	ttgagaccag	cctggccaac	atggcaaaac	ccgctctcta	ctaaaaatac	aaaaatatac
2401	cggatgtggt	gggtgtgcacc	tgtaatccca	gctactcggg	aggtctaggc	agaagaatcg
2461	cttgaaccca	ggagggggag	gttacactga	gcggagatcg	tgctactgca	ttgcagcctg
2521	ggcgagagag	cgagtctcca	tctcacataa	aaaaaagaaa	agaaagaaa	gcaagcttgt
2581	ctgttgccct	gccctgcagg	gtggagttca	gagggaaggt	caggagccta	gtgacagctc
2641	aaaaaaaaaa	aaacccaat	accaatgttg	gccccctttg	cctttcatte	atgtgttttc
2701	tatacataaa	actcacatat	tggttttgca	gatcactcca	agcttggttg	gagctgtggg
2761	ggtaaggagg	gtaatataga	agcttcccc	ccctcaaccc	caccccttcc	ttcctggagt
2821	ccccagccct	gacttttagat	ccctccctca	ctggaccttc	aaaaccttca	gggcagagag
2881	cagccctaca	ctccctacac	cacaccata	ctcagccctt	gcaggcaagg	agagaacagg
2941	tcaggttccc	gaagactcag	gtgagtga	cgttgggaatg	gcccagggca	ccttcaccct
3001	gctcagcttg	tggtccaac	attctagaag	ccgaggccctc	tgccactcct	gccccctccc
3061	atggatatte	catttcaatt	agacaaccca	gcttggcccg	aacccccctg	cgttccccct
3121	tttcccttgt	gtatttttga	gacagggtgt	tgctccgtca	cccaggcttg	aggtgagtgg
3181	gatcctggcc	cactgcagcc	tcaaattcct	aggctgaggc	aatcctgccg	cctcagcctc

FIG. 7A

3241	ctgagtagct	ggsgttacaa	gagcaagcca	ccacacccag	ctaattttga	aaaatattti:
3301	ttgtagagga	gaggtcttgc	tttgtttgtc	agggttggct	caaactccag	ggctcaaggg
3361	atcctttccc	gttggcctcc	caaggctctg	ggattacagg	cgggagtcac	cctgcctggg
3421	ccccctcttt	tgatgagtea	tcagttttca	ttcccgcacg	aggctctagc	ccctgggtacc
3481	agcttagttg	ctcaatgggc	tgtgtttgtt	ctggagccca	gatggactgt	ggccaggcaa
3541	gtggatcaca	gacctggccg	gcctgggagg	tttccacatg	tgaggggcat	gaggggggct
3601	caaggagggg	agcatcgsgg	agaggagcgc	actgggtgga	ggctgggggt	cccagcagga
3661	aatgggtaga	caaagggcgc	tggtggcag	ggagacagca	caggcaggcc	ctagagcttc
3721	ctcagcacag	ctggactctc	ctggagacct	tcacacaccc	tgatatctgg	gccccgcgct
3781	acgaggggtg	tttcaactgg	ctgcactatg	ccccaggccc	tgsgattttg	aacagctctg
3841	caggtgactg	aaaggtgcs	ccaggctggg	gaacgacctg	gtttcagccc	cayccccgc
3901	actgactgac	tttgtgagtg	cgggcaagtc	actcagcctc	cctaggcctc	agtgaacttc
3961	ctgaaagcaa	aaactctgca	aaggggcagc	tgggtgctgg	ctcacacctg	taatcccagc
4021	actttgggag	gctgaggtag	acaaatcact	tgaggccagg	agrtctagac	cagcctggcn
4081	aacatggtag	aaccccatct	ctactaaaga	aaaaaaaaaa	tragctgagc	atgggtgtac
4141	atgcttgtaa	tcccagctac	ttgggatgcc	gaggcgggag	gattgcttga	acccaagagg
4201	tggagtttgc	agtgaagctg	gattgtgcca	cactgcactc	cagcttgggt	gagagtgaga
4261	ctccatctca	aaaaaaaaaa	aaaaaagaga	gaatccact	ttcttgctg	tgtgatggtg
4321	gtaaggggaa	gggcctggct	ctggccccctg	atgcaggaac	atggagctga	tccaggacac
4381	ctcccccccg	ccactggagt	acgtgaagg	ggccccgctc	atcaagtact	ttgcagaggc
4441	actggggccc	ctgcagagct	tccaagcccg	acctgatgac	ctgctcatca	acacctaccc
4501	caagtctggt	aagtgaggag	ggccacccac	cctctcccag	gcggcagctc	ccaccttgg
4561	cagcaagggtc	gtgcccctcag	cctgctcacc	tcctatctcc	ctccctctcc	acgacccacc
4621	tgggtgagcc	agatactgga	catgatctac	cagggcggcg	acctagagaa	gtgtaaccfg
4681	gctcccctct	acgtacgggt	gcccttcctt	gaggtcaatg	atccagggga	acctcaggt
4741	gcattggctg	gtcctggggg	taagggaagt	ggaggaagac	agggctgggg	cttcagctca
4801	ccagaccctc	cctgacccac	tactcagggc	tggagactct	gaaagacaca	ccgccccac
4861	ggctcatcaa	gtcacacctg	ccccctggct	tgctccctca	gactctgttg	gatcagaagg
4921	tcaaggtgag	gccgggctca	atgggttcaca	cctgtcatcc	cagtttyaga	ctgaggagg
4981	aggatccctt	gaaggcgaga	gatggagacc	agcctgggca	acattgctgt	agagatgaca
5041	tcccctctct	acaaaaataa	aattaacaac	ctgggtatgg	ggcatagact	gttcccagtt
5101	acttagggag	ctcagcgggg	aggactgttt	atgcaaatag	gaagctgcaa	tgagccctga
5161	tgatcctgct	gctgcactcc	agcctgggca	acacagcaaa	acctctctca	cgaaaaaaa
5221	agttcccact	gactggcaag	gaaagccagg	aaggggggct	caggtgicct	ctcagccatg
5281	tacctgttct	tctgggaagg	cctcctcgct	ctgcccaggc	tcacacacac	ttttttttt
5341	ttgagacaga	gtccttgctct	gtcacccctg	ctggagtga	gtggcatgat	ctcagctcac
5401	tgcaacctcc	gcctccccag	ttcaagtgat	tctcctgcct	cagcctcctg	agtgaactgg
5461	attacagctg	tggtgtacca	caccgggcta	atttttgtat	tctttttagt	agagacgggg
5521	tttcaccatg	ttggtcaagt	ggatctcaaa	ctcttgacct	tgtgatcctc	ctgcctcgac
5581	ctcacaaagt	gctggaatta	caggcgtgag	ccaccgccc	tggccctttt	tttttttgag
5641	acagtttcac	tcttgttgcc	gaggctagag	cgcaatcgtg	tgatctcggt	tcactgcaac
5701	caccgcctcc	tgggttcaag	caattctcct	gcttcagcct	cccaaggagc	tgggattaca
5761	ggtacctgcc	accacgccc	gctaattttg	tatttttagt	agagatgggg	tttcaccatg
5821	ttggtcaggc	tggtcttgaa	ctcctgacct	cagggtgatct	ggcaccttgg	cctcccaaa
5881	tgccgggatt	agaggcatga	gccaccacgc	ccagccttca	tcacatcttg	agagagacac
5941	ctgtctgcct	cttgcctctga	tgagggtctg	atgcaaagga	tagtgagtct	ctacagtga
6001	cacttaagaa	aggcagcatg	tgggtgctca	caggtcaggc	ggaggagggg	gagctgggtg
6061	ggaccaggca	tgccttgctc	cagatcagga	tatgatggca	ttgggtgcaga	ttatattagt
6121	atagaatatg	gtctcaggaa	ccaggcagga	ctttggcttc	cgagcagggt	tcagatccca
6181	gcttggccct	acctgtgcag	tgagatctca	agcaagtcat	cctctaagcc	tcaggttctc
6241	cccttgccag	ttcaacagat	gagctggcct	gggggtgggt	gtgtgggtgat	gggtgctggg
6301	ctgggtcctc	tqccccctga	gttgggtctat	gttggccgaa	acccaaagga	cgtggcggct
6361	tcctactacc	atttccaccg	tatggaaaag	ggcaccctg	agcctgggac	ctgggacagc
6421	ttcctggaaa	agttcatggc	tggagaagct	gggcttgact	ggaggaagga	gggtgtgaag
6481	ccgaggggtg	gtggctataa	cgtacagcaa	ccctgtgtcg	gtgccccctg	cccgcttctc
6541	ragtgcctca	cgggtcctgg	taccagcacg	tgcaggagtg	gtgggagctg	agccgcaccc
6601	acctgttct	ctacctcttc	tatgaagafa	tgaaggaggt	gagaccgact	gtgatgcttc

FIG. 7B

6661	cccccatgtg	acacctgggg	gcaggcacct	cacagggacc	caccaaggcc	acccagcccc
6721	gtccctgggc	ggctcccaca	gcaagcccgg	attcccccac	ctacctccct	ggcccaggcc
6781	ccccactgc	agccccacct	ggcagcaggc	tcggcacagc	tttcatcttc	tgcacctgag
6841	tcagctgcat	gggtggccac	ggatcagata	cttagtccta	ttgcttatcc	tcaccaaagj
6901	gtgtgccacc	cagggccaca	gtcatggaag	aagaccatcc	cggtccctcac	ccataggcgc
6961	caagccctgt	tcatgatggg	atcacagggc	agagatcaat	tcatttttact	cca, agacta
7021	gggccccagg	gggttgaggct	ctttgggggt	tctaggggaa	gtggccagat	ccccctctgag
7081	gttagagagg	gggacccggt	ttgttttgct	ccactgagga	gccctctgct	gctcagaaacc
7141	ccaaaaggga	gattcaaaaag	atcctggagt	ttgtggggcg	ctccctgcca	gaggagacca
7201	tggacttcat	ggttcagcac	acgtcgttca	aggagatgaa	gaagaaccct	atgaccaact
7261	acaccaccgt	cccccaaggc	ctcatggacc	acagcatctc	ccccctcatg	aggaaacgtg
7321	gggtgctggc	agcacggggg	tttggggcg	gtgggagcag	cagctgcagc	ctccccatag
7381	gcacttgggg	cctccctggg	gatgagactc	cagctttgct	ccctgccttc	ctccccacg
7441	catggctggg	gactggaaga	ccaccttcac	cgtggcgag	aatgagcgct	tcgatgcgga
7501	ctatgcggag	aagatggcag	gctgcagcct	cagcttccgc	tctgagctgt	gagaggggct
7561	cctggagtca	ctgcagaggg	agtgtgcgaa	tctaccctga	ccaatgggct	caagaataaa
7621	gtatgatttt	tgagtcaggc	acagtggctc	atgtctgcaa	tcacagcgat	ttgggaggtt
7681	gagctggtag	gatacacaata	ggccacgaat	ttgagaccag	cctggtaaaa	tagtgagacc
7741	tcattctctac	aaagatgtaa	aaaaattagc	cacatgtgct	ggcacttacc	tgtagtccca
7801	gctacttggg	aagcagaggc	tggaggatca	tttcagccca	ggaggttgtg	gatacagtga
7861	gttatgacat	gcccattcac	tacagcctgg	atgacaagca	agaccctccc	tccaaagaaa
7921	ataaaqctca	attaaaaatga	aatatgattt	gtgttcatgt	agagcctgta	ttggaaaagga
7981	agagaaaactc	tgagctgaaa	gagtgaatgc	ccggtggggc	cacatatggt	cacctctccc
8041	ccagccttca	gtcctccagg	tcaccatata	tggggagggg	agaaggggtt	ggagaagtaa
8101	aaccaggag	atgtgtggag	gggggatgtc	tgtttaatcc	cagcacatcc	tctgtgttcc
8161	tgccccaaaga	tggtggagga	cgtcgagtcc	gccgggcagc	gtcacttttt	cttgggctcc
8221	ttagaagcta	ccagggtacct	ctggggccaca	ctgagatgag	gggagtagcc	gcctgcatag
8281	gaggtgtctt	caaacaggat	agtatagtcc	ctcctggggg	ttgtgggggt	aggtggccaa
8341	ggaagggtag	aggagcaagc	ccccggggct	ggttgtcaac	tcactttgtt	ggctggaatt
8401	ggttgtaact	tgaccacctc	gggcaggatc	ccactgctca	tccccaa	

FIG. 7C